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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/942,360	08/29/2001	Christopher Peter Wieck	50R4605	8902
37123	7590 09/15/2005		EXAMINER	
FITCH EVEN TABIN & FLANNERY 120 SOUTH LASALLE SUITE 1600			FILE, ERIN M	
CHICAGO, IL 60603			ART UNIT	PAPER NUMBER
,			2634	
			DATE MAILED: 09/15/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	09/942,360	WIECK, CHRISTOPHER PETER	
Office Action Summary	Examiner	Art Unit	
	Erin M. File	2634	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet v	vith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a within the statutory minimum of the will apply and will expire SIX (6) MC cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. IBANDONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on <u>23 M</u> This action is <b>FINAL</b> . 2b)⊠ This     Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.  nce except for formal ma		
Disposition of Claims			
4) ⊠ Claim(s) 1-16,18-23 and 25 is/are pending in the day Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed.  6) ⊠ Claim(s) 1-5,9-16,18-20,22,23 and 25 is/are regree 7) ⊠ Claim(s) 6-8 and 21 is/are objected to.  8) □ Claim(s) are subject to restriction and/or	vn from consideration. jected.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on 23 May 2005 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	☑ accepted or b)☐ objection  □ accepted or b)☐ objection  □ accepted if the drawin	nnce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in a rity documents have bee u (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152)	

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

Paper No(s)/Mail Date <u>5/25/2005</u>.

C

6) Other: \_\_\_

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#### **DETAILED ACTION**

### Response to Arguments

1. Applicant's arguments, see Remarks, filed May 23, 2005 with respect to the rejection(s) of claim(s) under 35 USC § 103 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Freed.

#### Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35
U.S.C. 102 that form the basis for the rejections under this section made in this
Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1, 3-5, 9-13, 16, 18-20, 22, 23, and 25 are rejected under 35
   U.S.C. 102(b) as being anticipated by Freed.

Claims 1, 3, 22, 25, Freed discloses methods, systems and computer program products providing control over the operation of a receiver of a wireless device so as to reduce the power consumption of the receiver by setting the third order

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intercept point of a Low Noise Amplifier based upon at least one of a strength of a signal received by the wireless device or a transmission power of a transmitter of the wireless device. Furthermore, the gain of the Low Noise Amplifier may also be set based upon received signal strength or transmitter power (abstract). The signal strength is also used to determine whether the amplifier is bypassed (fig. 3, 78, 82).

Claim 4, inherits the limitations of Claim 1, Freed discloses powering down said amplifier if the amplifier is powered up and the received signal strength is greater than said threshold. (col. 1, lines 39-45).

Claim 5, inherit the limitations of Claim 1. Freed further discloses a Low Noise Amplifier (fig. 2, 30) having an input coupled to a signal source and a low noise amplifier output, a filter (34) having an input coupled to the low noise amplifier output and a filter output, an amplifier (38) having an amplifier input coupled to the filter output and an amplifier output, and a bypass circuit comprising a bypass switch (42) coupled between the input of the filter and the amplifier output.

Claim 9, 10, 11, 23, Freed further discloses his method embodied in a set of computer instructions stored on a computer readable media; said set of computer instructions, when loaded into a computer, cause the computer to perform the steps of said method (col. 6, lines 7-23).

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Claim 12, 13, 16, Freed discloses a low noise amplifier (fig. 2, 30), low noise amplifier input and a low noise amplifier output, low noise amplifier input coupled to a signal source. A filter (34) having an input coupled to the low noise amplifier output and a filter output; an amplifier (38) having an amplifier input coupled to the filter output and an amplifier output; a bypass switch (42) coupled between the input of the filter and the amplifier output and configured to bypass the filter and amplifier; and a control device configured to activate and deactivate the first bypass circuit (fig. 3, 78, 82).

Claim 18, inherits the limitations of Claim 12, Freed further discloses a second bypass circuit (fig. 3, 32) coupled between the low noise amplifier input and output; wherein said control circuit is further configured to activate and deactivate the second bypass circuit (fig. 3, 78, 82).

Claims 19, 20, inherit the limitations of Claims 18, 19, respectively. Freed further discloses the first bypass circuit (fig. 3, 42) is activated if an strength of a received signal is greater than a first threshold (fig. 3, 66, 70, 72), and the second bypass circuit is activated if the received signal strength exceeds a second threshold (74, 78), wherein the second threshold (-84 dBM) is higher than the first threshold (-94 dBM).

## Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 2, 14, 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Freed.

Claim 2, inherits the limitations of Claim 2. Freed does not disclose expressly a predetermined threshold of -90.5 dBm. However, freed does disclose a threshold of -94 dBm. At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to choose a threshold of 90.5 dBm. Applicant has not disclosed that the threshold value of -90.5 dBm provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with the threshold value of -94 dBm. Therefore, it would have been obvious to one of ordinary skill in this art to modify Freed to obtain the invention as specified in Claim 2.

Claims 14, 15, both inherit the limitations of Claim 13, the applicant admits in paragraph 63 of the disclosure that any switching method common in the art

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could be used. A single pole single throw switch is a switch with a single contact, along with a transistor, these are two types of switching devices extremely common in the art and would be obvious to one of ordinary skill in the art at the time of invention to use either a single pole single throw switch or a transistor at the time of invention.

## Claim Rejections - 35 USC § 112

- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 7. Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 3, the recitation, beginning in line 2, "said predetermined threshold comprises a minimum signal strength capable of being processed by electronics coupled to an output of said front end less strength of amplification by an Low Noise Amplifier (LNA) of said front end" is unclear and is rendered vague and indefinite.

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## Allowable Subject Matter

8. Claims 6-8, 21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erin M. File whose telephone number is (571)272-6040. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on (571)272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Erin M. File

SUPERVISORY PATENT EXAMINE.
TECHNOLOGY CENTER 2600